

DETAILED ACTION

1. In the amendment filed on February 18, 2009, claims 1, 16, and 26 were amended. Claims 1-3, 5-20, and 25 are pending. Claims 1, 16, and 26 are independent claims.

Drawings

2. Drawings filed on October 10, 2003, are accepted.

Specification

3. Specification filed on October 10, 2003, is considered and accepted.

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Preetam B. Pagar, Reg. No. 57,684, on May 13, 2009.

Please replace claims 1 and 16 with amended claims 1 and 16 respectively and cancel claim 26.

1. (Currently Amended) An integration server system, comprising:

a processor ~~operable to execute~~ that executes instructions stored in a data storage medium;

a database ~~operable to store~~ that stores data accessible to the processor;

a generator ~~adapted to create~~ that creates a database schema in response to a model description, the database schema including at least one table and configured to store a set of data object instances in the database;

a metadata model representing a configuration of the set of data object instances in the database schema;

a model application programming interface ~~operable to provide~~ that provides a client application with access to the set of data object instances as separate data objects and ~~operable to convert~~ that converts the set of data object instances into one of at least two different object formats based on requirements of the client application, whereby the client application is able to access data for use in executing a process for the client application; and

a metadata application programming interface ~~adapted to provide~~ that provides a client application with access to definitions for the set of data object directly within the database schema instances via the metadata model, the client creating and updating data objects by modifying metadata for the set of object instances without accessing the data object instances through the model application programming interface,

wherein the database schema utilizes an ordered sequence for preserving an ordered association between the set of data object instances, a random sequence value being generated for a new data object instance to be inserted into the ordered sequence, the random sequence value being generated

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relative to an average of sequence values of existing data object instances immediately adjacent to a point of insertion in the ordered sequence, the generation of a random sequence value enabling the client application and any additional application able to concurrently insert a data object instances into the ordered sequence.

16 . (Currently Amended) An integration server system, comprising:

a processor ~~operable to execute~~ that executes instructions stored in a data storage medium;

a database ~~operable to store~~ that stores data accessible to the processor;

a generator ~~adapted to create~~ that creates a database schema in response to a model description, the database schema including at least one table and configured to store a set of data object instances in the database;

a metadata model representing a configuration of the set of data object instances in the database schema;

a model application programming interface ~~operable to provide~~ that provides a client application with access to the set of data object instances as separate data objects; and

a metadata application programming interface ~~adapted to provide~~ that provides a client application with access to definitions for the set of data object directly within the database schema instances via the metadata model,

wherein the database schema utilizes an ordered sequence for preserving an ordered association between the set of data object instances, a random sequence value being generated for a new data object instance to be inserted into the ordered sequence, the random sequence value being generated relative to an average of sequence values of existing data object instances immediately adjacent to a point of insertion in the ordered sequence, the generation of a random sequence value enabling the client application and any additional application able to concurrently insert a data object instances into the ordered sequence.

Allowable Subject Matter

5. Claims 1-3, 5-20, and 25 are allowed.

The following is the statement of reasons for allowance.

As per claim 1, the prior art of record (Trappen et al., (U.S. Patent Application Publication Number 2004/0015814) in view of Komine et al., (U.S. Patent Number 6728727) and further in view of Brickmore et al., (U.S. Patent Application Publication Number 2003/0206170)), alone or in combination, does not teach or fairly suggest the combination of steps as recited in the claim. Prior art of record does not teach the following limitations:

“wherein the database schema utilizes an ordered sequence for preserving an ordered association between the set of data object instances, a random sequence value being generated for a new data object instance to be

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inserted into the ordered sequence, the random sequence value being generated relative to an average of sequence values of existing data object instances immediately adjacent to a point of insertion in the ordered sequence, the generation of a random sequence value enabling the client application and any additional application able to concurrently insert a data object instances into the ordered sequence”.

The dependent claims of claim 1 being definite, further limiting, and fully enabled by the specification are also allowed.

As per claim 16, the prior art of record (Trappen in view of Komine et al., and further in view of Brickmore et al.), alone or in combination, does not teach or fairly suggest the combination of steps as recited in the claim. Prior art of record does not teach the following limitations:

“wherein the database schema utilizes an ordered sequence for preserving an ordered association between the set of data object instances, a random sequence value being generated for a new data object instance to be inserted into the ordered sequence, the random sequence value being generated relative to an average of sequence values of existing data object instances immediately adjacent to a point of insertion in the ordered sequence, the generation of a random sequence value enabling the client application and any

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additional application able to concurrently insert a data object instances into the ordered sequence”.

The dependent claims of claim 16 being definite, further limiting, and fully enabled by the specification are also allowed.

Any comments considered necessary by applicant must submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reason for Allowance".

Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis Myint whose telephone number is (571) 272-5629. The examiner can normally be reached on 8:30AM-5:30PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-5629.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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